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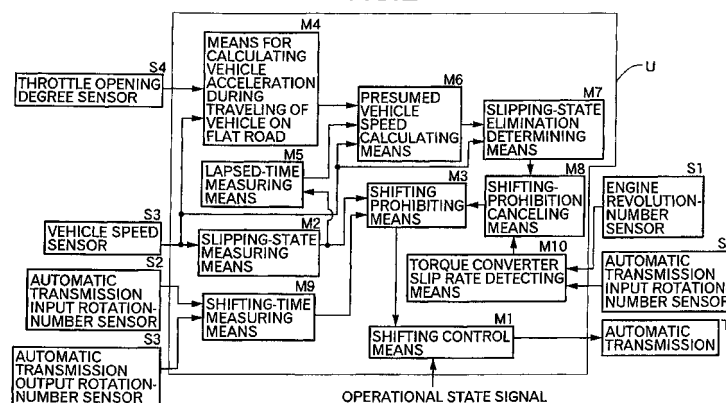
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(54) **Vehicle automatic transmission control during wheel slip conditions**

(57) It is an object of the present invention to provide a control system for an automatic transmission, which operates so that when slipping of drive wheels is generated at the starting of a vehicle on ice or the like, upshifting from a second gear shift stage to a third gear shift stage is prohibited. However, when the pseudo slipping state of the drive wheels is detected with the locking or unlocking of the drive wheels, the undesirable prohibition of the upshifting of the automatic transmission is avoided. A slip rate of a torque converter is determined

on the basis of an engine revolution-speed (a torque converter input rotation-speed) and an automatic transmission input rotation-speed (a torque converter output rotation-speed). When the slip rate exceeds, for example, 102%, so that the driving force is transmitted from the drive wheels toward the engine, it is determined that the pseudo slipping state attendant to the locking or unlocking of the drive wheels has been detected, thereby canceling the prohibition of the upshifting of the automatic transmission.

FIG.2





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EUROPEAN SEARCH REPORT

Application Number
EP 98 30 6360

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The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
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<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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